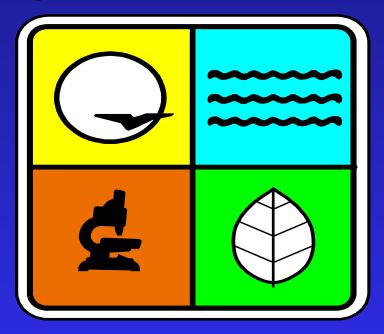
Public Information and Consultation Meeting BOUNDARY DESIGNATION

Eight-hour Ozone Standard



Refaat Mefrakis, P.E.

Consent Decree

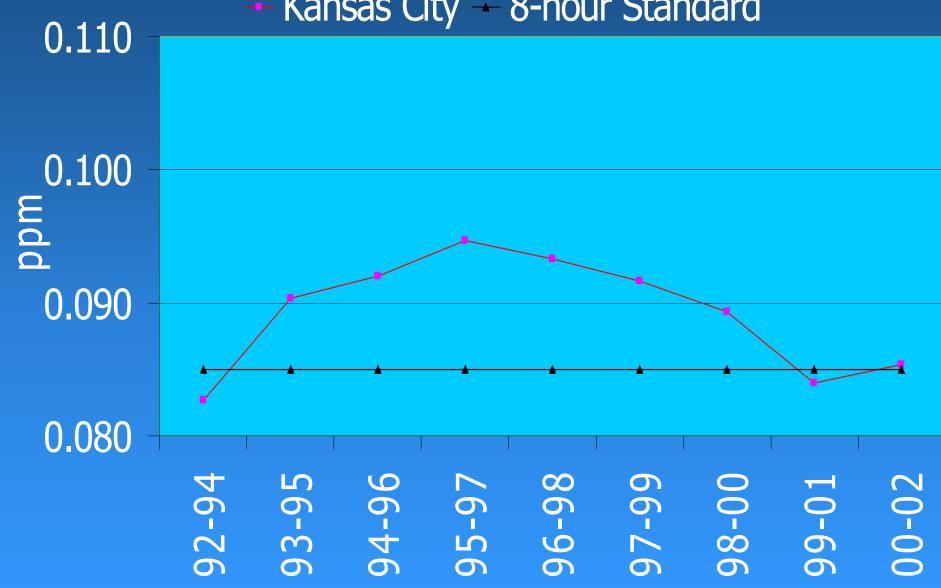


Requested designation recommendations and documentation from each State Governor be submitted to the Regional Administrator by April 15, 2003.

Set April 15, 2004, as the date that area designations for the 8-hour ozone standard will be finalized by EPA.

8-hour Design Values

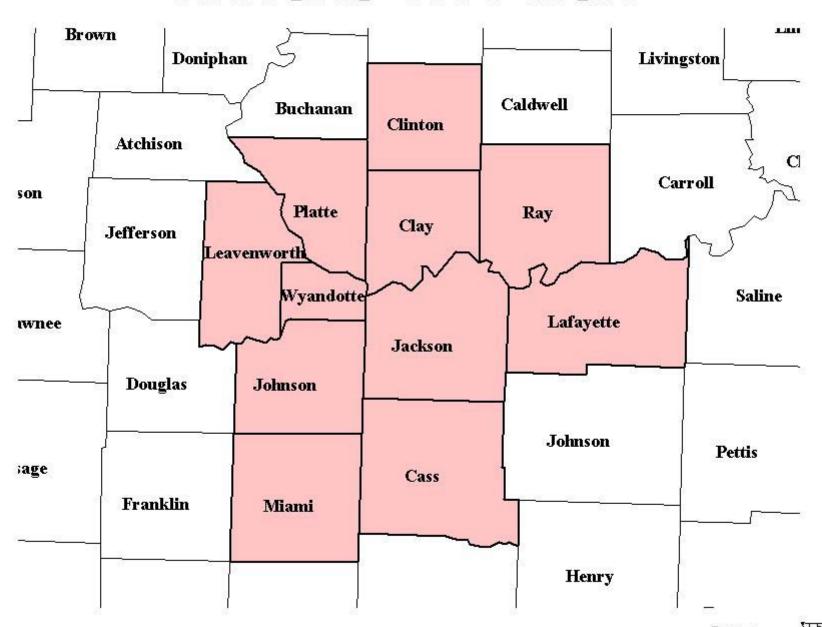
-- Kansas City -- 8-hour Standard



Criteria for Establishing Boundaries

- Area designations are based on air quality data.
- Any area that does not meet or that contributes to nearby areas not meeting the ambient air quality standard.
- **EPA** recommends that C/MSA serve as the presumptive boundary for 8-hour ozone nonattainment areas.

KANSAS CITY MSA



EPA Guidance for Establishing Boundaries

EPA asks states wishing to propose boundaries different than the C/MSA to address 11 different factors.



Factors to Consider

- **Emission and Air Quality**
- Population Density and Degree of Urbanization
- Monitoring Data
- Location of Emissions Sources
- Traffic and Commuting Pattern
- Expected Growth



Factor to Consider Cont'd

- Meteorology
- Geography/ Topography
- Jurisdictional Boundaries
- Level of Control of Emission Sources
- Regional Emissions Reductions



Summary of Timeline

- States are to update recommended designation during 2003.
- Promulgate air quality designation in April of 2004.
- State Implementation Plans are due by 2007.



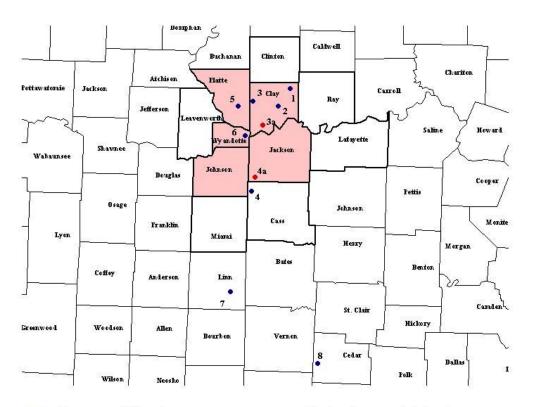
Technical Support Document Jeffry D. Bennett, P. E.

Progress to Date

- Review of July 2000 recommendation and technical support document
 - http://www.dnr.state.mo.us/alpd/apcp/homeapcp.htm

Collection of "new" information (air quality monitoring data, emissions, traffic count/VMT, population, meteorology)

MONITORING LOCATIONS IN THE KANSAS CITY AREA

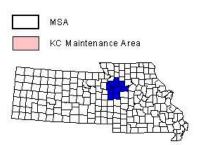


Current Monitors

- 1 Watkins Mill State Park
- 2 Liberty
- 3 Rocky Creek
- 4 Richards Gebaur South
- 5 KCI Airport
- 6 JFK Wyandotte Co (KS)
- 7 Mine Creek (KS)
- 8 El Dorado Springs

Relocated Monitors

- 3a Worlds of Fun
- 4a Richards Gebaur





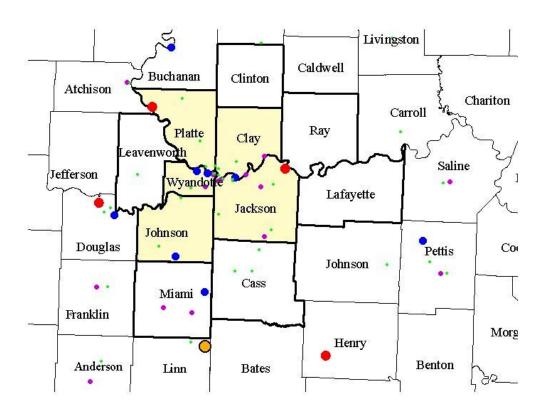
8-hour Ozone Design Values

Monitor	95-97	96-98	97-99	98-00	99-01	00-02
	Average	Average	Average	Average	Average	Average
Liberty	94	93	91	89	84	85
Watkins Mill	91	89	90	86	80	80
KCI	86	86	85	85	81	84
Worlds of Fun	80	80	83	85	82	-
Richards Gebaur	73	72	75			
Richards Gebaur						79
South						
Rocky Creek						91**
Wyandotte Co.						
(KS)	85	84	82	84	80	81
El Dorado						
Springs				88	84	83
Mine Creek						
(KS)				81	79	76

BOLD denotes monitors that exceed the 85 ppb cutoff

^{**2002} Data Only at Rocky Creek

NOx POINT SOURCES KANSAS AND MISSOURI





KC Maintenance Area

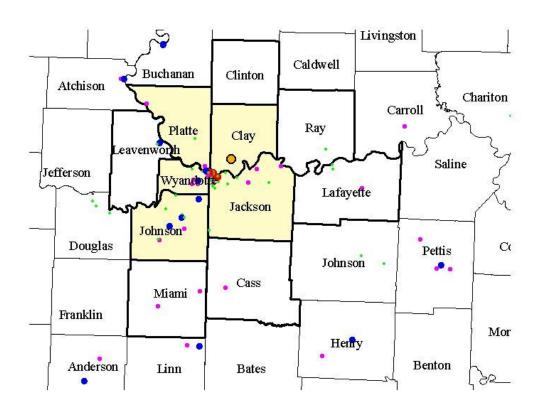
NOx Emissions in TPY

- 25-100
- 100-1,000
- 1,000-5,000
- 5,000-25,000



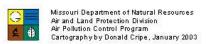
25,000+

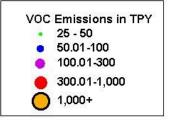
VOC POINT SOURCES KANSAS AND MISSOURI



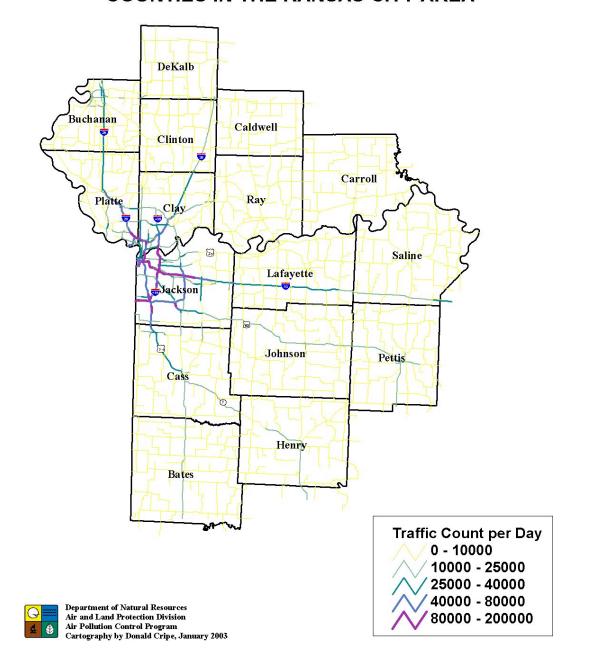


KC Maintenance Area

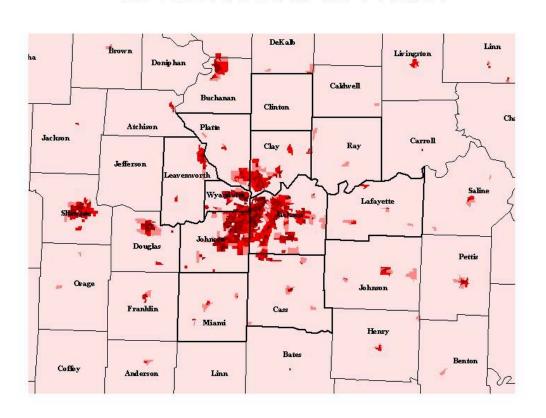




2001 TRAFFIC COUNT FOR MISSOURI COUNTIES IN THE KANSAS CITY AREA



2000 POPULATION DENSITY FOR COUNTIES IN THE KANSAS CITY AREA



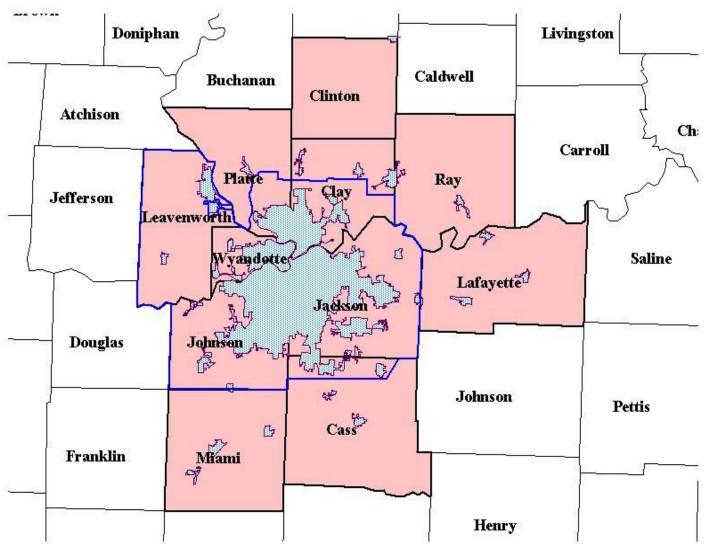
Population Density

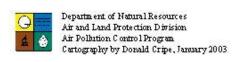
0 - 500 500 - 1000 1000 - 2500 2500 - 5000





KANSAS CITY AREA BOUNDARIES



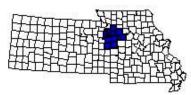




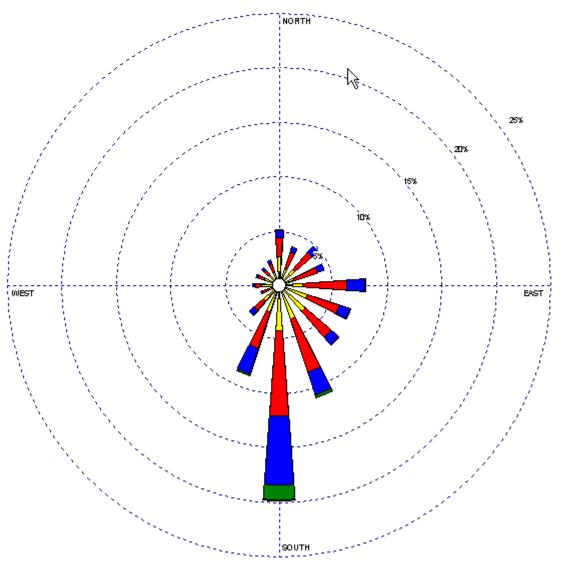


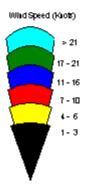
MPO BOUNDARY





KC Windrose (June - August)





Regional NOx Controls

■ 10 CSR 10-6.350 -- Missouri Statewide NOx Trading Rule

Control of emissions in western 2/3 of Missouri to 0.35 lb NOx/MMBTU from electric generating units

Summary

MDNR will continue to collect and review information to be used in support of the 8-hour designation recommendation

Upon completion of that effort (including input from the affected communities), MDNR will propose boundary designations for areas in Missouri